

Date.	Char-acter.	Phase.	Time.	Pe-riod. T.	Amplitude.		Dis-tance.	Remarks.
					A _N	A _E		

Canada. *Ottawa. Dominion Astronomical Observatory. Earthquake Station. Otto Klotz.*

Lat., 45° 23' 38" N.; long., 75° 42' 57" W. Elevation, 83 meters.

Instruments: Two Bosch photographic horizontal pendulums, one Spindler & Hoyer, 80 kg. vertical seismograph.

Instrumental constants: $\frac{V}{T_0}$ 120 $\frac{T_0}{26}$.

1918.			H. m. s.	Sec.	μ	μ	km.	
Jan. 4	eS _{7N}		4 43 44					
	eL _N		4 46 30†					
	L _N		4 49 ..	24				
	L _N		4 54 to					
	F _N		5 20 ..					
13	e _N		0 00 00	3				
	e _N		0 00 38	4				
	eL _N		0 01 04	6				
	M _N		0 03 36†	7				
	F _N		0 10 ..					
25	O _N		1 21 32	ca.			3,500ca	
	P _N		1 28 20	2				
	e _N		1 35 48†	2				
	eL _N		1 37 24	28				
	L _N		1 41 ..	22				
	F _N		2 ..					
30	O _N		21 18 46				8,560	
	iP _N		21 30 36					
	iS _N		21 40 24					
	i _N		21 42 12					
	eL _N		21 56 30†	28				
	L _N		22 05 ..	18				
	L _N		22 09 ..	15				
	L _N		22 20 ..	15				
	F _N		22 35 ..					

† Original time was in tenths of a minute.

Canada. *Toronto. Dominion Meteorological Service.*

Lat., 43° 40' 01" N.; long., 79° 23' 54" W. Elevation, 113.7 meters. Subsoil: Sand and clay.

Instrument: Milne horizontal pendulum, North. In the meridian.

Instrumental constant... $\frac{T_0}{18}$. Pillar deviation, 1 mm. swing of boom = 0.59".

1918.			H. m. s.	Sec.	μ	μ	km.	
Jan. 4	eL _N		4 47 36					
	eL _N		4 49 24					
	iL _N		4 50 00					
	M _N		4 50 42		*1,800			
	F _N		5 26 18					
4	eL _N		16 55 18					
	M _N		17 04 00		*600			
	F _N		17 35 48					
12	L _N		23 34 12		*100			
	L _N		23 36 54					
13	L _N		0 04 38		*200			
	L _N		0 12 24					
16	L _N		13 46 30					
	eL _N		13 51 24					
	M _N		13 55 48		*300			
	F _N		14 23 12					
21	L _N		20 54 06					
	L _N		20 58 06					
	M _N		21 04 48		*100			
	F _N		21 23 00					
24	eL _N		15 42 48					
	e _N		15 46 54					
	eL _N		15 50 18					
	M _N		15 54 12		*200			
	F _N		16 30 54					
25	P _N		1 25 36					
	e _N		1 29 48					
	eS _N		1 34 00					
	eL _N		1 37 12					
	iL _N		1 37 45					
	iL _N		1 40 54					
	M _N		1 41 54		*2,400			
	F _N		2 ..					
30	iS _N		21 41 36					
	M _N		21 41 48		*1,700			
	L _N		21 59 18					
	L _N		22 07 00					
	F _N		22 ..					

* Trace amplitude.

Date.	Char-acter.	Phase.	Time.	Pe-riod. T.	Amplitude.		Dis-tance.	Remarks.
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Canada. *Victoria, B. C. Dominion Meteorological Service.*

Lat., 48° 24' N.; long., 123° 19' W. Elevation, 67.7 meters. Subsoil: Rock.

Instruments: Wiechert, vertical. Milne horizontal pendulum, North; in the meridian.

Instrumental constant... $\frac{T_0}{18}$. Pillar deviation: 1 mm. swing of boom = 0.54".

1918.			H. m. s.	Sec.	μ	μ	km.	
Jan. 4	S ₇		4 46 01					
	L _N		4 50 02					
	L _N		4 56 22					
	M _N		5 03 08		*1,000			
	F _N		5 29 43					
	M _N		5 01 30	18				
4	P _N		16 26 13					
	L _N		16 35 04					
	M _N		16 39 00		*400			
	F _N		17 02 37					
12	P or L		23 48 49					
	M _N		23 50 18		*200			
21	P? or L		20 30 21					
	L _N		20 39 12					
	M _N		20 47 18		*300			
	F _N		21 05 46					
24	P?		15 40 12					
	M _N		15 43 39		*100			
	F _N		15 48 04					
25	P or S?		1 35 35					
	L _N		1 40 03					
	L _N		1 45 30					
	M _N		1 48 28		*500			
	F _N		2 18 13					
30	P?		21 23 30					
	S ₇		21 28 32					
	L _N		21 33 59					
	i _N		21 37 16					
	M _N		21 37 46		*500			
	L _N		22 18 34					
	F _N		22 33 00					

* Trace amplitude.

SEISMOLOGICAL DISPATCHES.¹

Geneva, January 3, 1918.

The Zurich observatory reports that a serious earthquake which was recorded recently has been located at Oberammergau, in upper Bavaria, and also in the upper valley of the Lech River. (Associated Press.)

Washington, D. C., January 4, 1918.

The entire city of Guatemala was wiped out by an earthquake shock Friday night (Jan. 4) at 10.45 o'clock. (Radio dispatch from Darien to the War Department.)

Washington, D. C., January 5, 1918.

Our manager at San Jose, Guatemala, telegraphs the following: "What was left of Guatemala City is now wiped out. Shocks at 10.35 p. m. finished everything. Steam is now coming up in the streets. ('athedral fallen; 300 killed.'" (Dispatch from the Central and American Telegraph Co.)

Guatemala City, January 5, 1918.

The earthquakes here continue with varying frequency and intensity. The capitol is in ruins. (Associated Press.)

Washington, D. C., January 27, 1918.

Further severe earthquake shocks in Guatemala City, capital of Guatemala, were reported yesterday to the State Department by the American legation there. No details of the extent of the damage were given.

Extensive damage was done to the city by earthquakes last month. (State Department.)

¹ Reported by the organization indicated and collected by the seismological station of Georgetown University, Washington, D. C.